

AMENDMENTS IN THE CLAIMS:

Please cancel claims 1-9 without prejudice or disclaimer of the material contained therein. Please add new claims 10-18. Therefore, claims 10-18 are currently pending.

Claim 10 (New): A method of cutting an object to be processed, the method comprising:
a starting point region for cutting forming step of irradiating a wafer-like object to be processed with laser light while positioning a light-converging point therewithin, so as to form a modified region due to multiphoton absorption within the object, and causing the modified region to form a starting point region for cutting, deviated from a center position of the object in a thickness direction thereof toward one end face of the object, along a line along which the object should be cut in the object; and

a pressing step of pressing the object from the other end face side of the object.

Claim 11 (New): A method of cutting an object to be processed according to claim 10, wherein the object is pressed along the line along which the object should be cut in the pressing step.

Claim 12 (New): A method of cutting an object to be processed according to claim 11, wherein positional data of the line along which the object should be cut with respect to the object is stored in the starting point region for cutting forming step; and

wherein the object is pressed along the line along which the object should be cut according to the positional data in the pressing step.

Claim 13 (New): A method of cutting an object to be processed, the method comprising:

a starting point region for cutting forming step of irradiating a wafer-like object to be processed with laser light while positioning a light-converging point within the object under a condition with a peak power density of at least 1×10^8 (W/cm²) at the light-converging point and a pulse width of 1 μ s or less, so as to form a modified region including a crack region within the object, and causing the modified region to form a starting point region for cutting, deviated from a center position of the object in a thickness direction thereof toward one end face of the object, along a line along which the object should be cut in the object; and

a pressing step of pressing the object from the other end face side of the object.

Claim 14 (New): A method of cutting an object to be processed, the method comprising:

a starting point region for cutting forming step of irradiating a wafer-like object to be processed with laser light while positioning a light-converging point within the object under a condition with a peak power density of at least 1×10^8 (W/cm²) at the light-converging point and a pulse width of 1 μ s or less, so as to form a modified region including a molten processed region within the object, and causing the modified region to form a starting point region for cutting, deviated from a center position of the object in a thickness direction thereof toward one end face of the object, along a line along which the object should be cut in the object; and

a pressing step of pressing the object from the other end face side of the object.

Claim 15 (New): A method of cutting an object to be processed, the method comprising:

a starting point region for cutting forming step of irradiating a wafer-like object to be processed with laser light while positioning a light-converging point within the object under a condition with a peak power density of at least 1×10^8 (W/cm²) at the light-converging point and a pulse width of 1 ns or less, so as to form a modified region including a refractive index change region which is a region with a changed refractive index within the object, and causing the modified region to form a starting point region for cutting, deviated from a center position of the object in a thickness direction thereof toward one end face of the object, along a line along which the object should be cut in the object; and

a pressing step of pressing the object from the other end face side of the object.

Claim 16 (New): A method of cutting an object to be processed, the method comprising:

a starting point region for cutting forming step of irradiating a wafer-like object to be processed which is made of a semiconductor material with laser light while positioning a light-converging point within the object under a condition with a peak power density of at least 1×10^8 (W/cm²) at the light-converging point and a pulse width of 1 μ s or less, so as to form a modified region within the object, and causing the modified region to form a starting point region for cutting, deviated from a center position of the object in a thickness direction thereof toward one end face of the object, along a line along which the object should be cut in the object; and

a pressing step of pressing the object from the other end face side of the object.

Claim 17 (New): A method of cutting an object to be processed, the method comprising:

a starting point region for cutting forming step of irradiating a wafer-like object to be processed which is made of a piezoelectric material with laser light while positioning a light-converging point within the object under a condition with a peak power density of at least 1×10^8 (W/cm²) at the light-converging point and a pulse width of 1 μ s or less, so as to form a modified region within the object, and causing the modified region to form a starting point region for cutting, deviated from a center position of the object in a thickness direction thereof toward one end face of the object, along a line along which the object should be cut in the object; and

a pressing step of pressing the object from the other end face side of the object.

Claim 18 (New): A method of cutting an object to be processed, the method comprising:

a starting point region for cutting forming step of irradiating a wafer-like object to be processed which is made of a semiconductor material with laser light while positioning a light-converging point within the object, so as to form a molten processed region within the object, and causing the molten processed region to form a starting point region for cutting, deviated from a center position of the object in a thickness direction thereof toward one end face of the object, along a line along with the object should be cut in the object; and

a pressing step of pressing the object from the other end face side of the object.